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| 19. ABSTRACT (Continue on reverse if necessary and identify by block number) This POP report is for the Tile, Armor, M1 and M2 which is packaged three M1 Tile Armors/Mil-B-2427 wood box or two M2 Tile Armors/Mil-B-2427 wood box. This report describes the results of testing conducted on the actual item. | | | | | | |
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I. REPORT NUMBER: DOD POP HMTR/AYD 92-007

II. TITLE: Performance Oriented Packaging Report for Tile, Armor, M1 and M2

AUTHOR: Frank M. Sniezek

PERFORMING ACTIVITY: ARDEC

ADDRESS: Department of the Army
ARDEC, SMCAR-AEP
HQ, U.S. Army Armament, Munitions, and Chemical Command
Picatinny Arsenal, NJ 07806-5000

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92-31315



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1. DATA SHEET

CONTAINER

Type: Box

UN Code: 4C1

Nomenclature: Packing and Marking for Tile, Armor, M1 and M2

Specification Number: Type II, Grade A, Class 4, Mil-B-2427

Drawing Number: 9395788

Material: Wood

Gross Weight: 72 pounds

Outside Dimensions: 38 x 13 1/4 x 4 9/16

Inside Dimensions: 35 1/8 x 11 3/4 x 2 3/8

PRODUCT

Name: Tile, Armor, M1 and M2

Drawing Number: 9392227 - M1

9392247 - M2

United Nations Number: 0138

Physical State: Solid

Amount per Container: 3 for Tile, Armor, M1

or

2 for Tile, Armor, M2

2. BACKGROUND, TESTS, AND RESULTS

Reference the following document:

a. 49CFR, October 1, 1991 Edition

Instead of testing the wooden box containing the actual item, three wooden boxes built to the same specification but packed with a fiberboard box filled with sand to a gross weight of 77 pounds were tested.

A Stacking Test was conducted on one container with a weight of 2500 pounds for 72 hours in lieu of three containers for 24 hours. This weight exceeds the minimum requirement for a 10 foot stack height which is 2310 pounds.

A Loose Cargo Test was conducted on three containers for one hour. The packages were tested at a vibration table frequency such that the bottom of the packages were raised 1/4 inch from the platform, which exceeds the requirement of 1/16 inch.

A Four Foot Drop Test was conducted on one of the containers that was subjected to the Loose Cargo Test. One container was dropped five times at different orientations as follows: top, bottom, long side, short side, and a top corner at the closure. This exceeds the requirement of one drop per container.

Test results indicated no leakage or spillage of the contents from the containers following any of the tests conducted, meeting the requirements of the 49CFR.